	Application No.	Applicant(s)
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Notice of Allowability	10/766,289	DRAGIC, PETER
	Examiner	Art Unit
	Charlie Peng	2883
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 01 December 2005</u> .		
2. The allowed claim(s) is/are <u>1-6</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority une a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	ratent Application (PTO-152)
Notice of Neterences Cited (FTO-032) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	
	Paper No./Mail Da	te <u>20060214</u> .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		
Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowance
		Brian Healy
	Filli	tary Examiner

Art Unit: 2883

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with J. Javonovic on 14 February 2006.

The application has been amended as follows:

In claim 1, lines 6-7, replace [an index of refraction] with -- an effective index of refraction --

In claim 4, lines 6-7, replace [an index of refraction] with -- an effective index of refraction --

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1 and 4 disclose an optical waveguide with a doped core, a first (doped)

cladding and a second (un-doped) cladding; wherein the first (doped) cladding has a

shear velocity less than the core and an optical mode has an effective index of

refraction greater than that of the second (un-undoped) cladding. Tajima teaches an

optical fiber having a core 1 composed of SiO₂ doped with Al₂O₃, a first cladding 4

composed of SiO₂ doped with F, and a second cladding 5 composed with SiO₂, wherein

the second cladding 5 has a refractive index (n_{2x}) smaller than that (n_{cx}) of the core 1.

Application/Control Number: 10/766,289

Page 3

Art Unit: 2883

Tajima further teaches how longitudinal acoustic wave V_{ii} and shear V_{si} velocities of the core and the claddings are related. However, neither Tajima nor any relevant prior art teaches how the effective index of refraction of an optical mode affects functions or capabilities (the shear velocities in particular) of the optical waveguide as disclosed. Since the effective index of refraction of an optical mode is not a parameter for routine experimentations in this art, there is no obvious motivation for one of ordinary skill in the art to further combine such a limitation. It is the examiner's opinion that the prior art of record, taken alone or in combination, fails to disclose or render obvious, the effective index of refraction of an optical mode as related to the core, the claddings, and the shear velocities of the claddings, in combination with the rest of the limitations of the base claim.

Claims 2, 3, 5, and 6 are also allowed as dependent claims of allowed claims 1 and 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlie Peng whose telephone number is (571) 272-2177. The examiner can normally be reached on 9 am - 6 pm M-F.

Application/Control Number: 10/766,289

Art Unit: 2883

Page 4

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charlie (Peng February 14, 2006

> Brian Healy Primary Examiner